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| 10/634,223 | 08/04/2003 | Chris Tengwall | 12838/3 | 6507 |

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KENYON & KENYON LLP
ONE BROADWAY
NEW YORK, NY 10004

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| EXAMINER |
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SHERKAT, AREZOO

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| ART UNIT | PAPER NUMBER |
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2131

| SHORTENED STATUTORY PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE |
|--|------------|---------------|
| 3 MONTHS | 02/27/2007 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Supplemental
Office Action Summary

Application No.

10/634,223

Applicant(s)

TENGWALL ET AL.

Examiner

Arezoo Sherkat

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 September 2006.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-80 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-80 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED SUPPLEMENTAL ACTION

Response to Amendment

This office action is responsive to Applicant's amendment received on 9/21/2006. The final office action mailed on 9/14/2006 has been withdrawn. Claims 1, 10, 12, 14-15, 24, and 26-27 have been amended. Claims 39-80 are added. Claims 1-80 are pending.

Response to Arguments

Applicant's arguments filed 7/6/2006 have been fully considered but they are not persuasive.

Applicant argues that Little does not disclose a relay arrangement that is arranged behind the firewall arrangement, and routes or pushes the data to the wireless carrier network to the at least one wireless device such that the data is not transmitted until the at least one wireless device can receive the data (Remarks, page 12).

Examiner responds that the wireless connector system 828, which is situated behind the firewall 808, does route or push the data to one or more mobile devices 816 and 818, via one or more wireless networks 812 and 814 (page 7, par. 64). Little discloses that the wireless connector system 828 to push messages stored in the user's mailbox 819 to the user's mobile device 816. The wireless connector system 828 may instead employ a "pull" technique, in which items stored in a mailbox 819 are sent to a mobile device 816, 818 ***responsive to a request or access operation made using the mobile device or some combination of both techniques*** (page

8, par. 64 – wherein the “pull” technique inherently requires that at least one mobile device requests access and therefore receives it in response to such request).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 9-18, and 22-80 are rejected under 35 U.S.C. 102(e) as being anticipated by Little et al., (U.S. Publication No. 2004/0205248 and Little hereinafter).

Regarding claims 1 and 55, Little discloses a system for transmitting data stored in at least one database and processed by a server arrangement to at least one wireless device (i.e., mobile device 816 and 818) that receives data from a wireless carrier network (i.e., wireless networks 812 and 814), the system comprising:

a relay arrangement (i.e., wireless connector system 828) for routing the data to the wireless carrier network (i.e., wireless networks 812 and 814) for transmission over the wireless carrier network to at least one wireless device (i.e., mobile device

816 and 818), and a firewall arrangement (i.e., firewall 808) that provides security for the data, the server arrangement (i.e., message server 820) and the relay arrangement (page 7, par. 64), wherein the relay arrangement is arranged behind the firewall arrangement and is configured to push the data from behind the firewall arrangement to the at least one wireless device such that the data is not transmitted until the at least one wireless device can receive the data (i.e., The wireless connector system 828 may instead employ a "pull" technique, in which items stored in a mailbox 819 are sent to a mobile device 816, 818 responsive to a request or access operation made using the mobile device or some combination of both techniques)(page 8, par. 67-68 – wherein sending the message responsive to a request or access operation naturally takes place when the mobile device is on and available to pick up the message).

Regarding claim 10, Little discloses a method for transmitting data, comprising:

retrieving data via a server arrangement (i.e., message server 820), processing the data in the server arrangement, sending the data to a relay arrangement (i.e. wireless connector system 828), processing the data in the relay arrangement arranged behind a firewall arrangement, and routing the data to the at least one wireless carrier network for transmission to at least one wireless device (pages 7-8, par. 65-68), the data being pushed from the relay arrangement from behind the firewall arrangement to the at least one wireless device such that the data is not transmitted until the at least one wireless device can receive the data

(i.e., The wireless connector system 878 may instead employ a “pull” technique, in which items stored in a mailbox 819 are sent to a mobile device 888, 890 responsive to a request or access operation made using the mobile device or some combination of both techniques)(page 15, par. 132 – the combined push/pull system), the firewall arrangement providing security for the data, the server arrangement and the relay arrangement receiving the data at the at least one wireless carrier network (i.e., any of the wireless networks 812 and 814), processing the data in the at least one wireless carrier network, sending the data to the at least one wireless device, receiving the data at the at least one wireless device, and processing the data in the at least one wireless device (page 8, par. 72).

Regarding claim 14, Little discloses an apparatus for transmitting data, comprising:

means for processing data, means for pushing the data directly to a wireless carrier network, means for securing the data, the means for processing and the means for pushing, and at least one wireless device that receives data from over the wireless carrier network, wherein the means for pushing is arranged behind the means for securing (i.e., firewall 808), and wherein the means for pushing is configured to push the data such that the data is not transmitted until the at least one wireless device can receive the data (pages 7-8, par. 67-68 – wherein sending the message responsive to a request or access operation naturally takes place when the mobile device is on and available to pick up the message).

Regarding claim 15, Little discloses a system for transmitting data stored in at least one database and processed by a server arrangement to at least one wireless device that receives data from a wireless carrier network, comprising:

a relay arrangement for routing the data to the wireless carrier network for transmission to the at least one wireless device, the relay arrangement being arranged within a controlled network and being configured to push the data from behind a firewall arrangement within the controlled network to the at least one handheld wireless device such that the data is not transmitted until the at least one wireless device can receive the data (pages 7-8, par. 65-68 – wherein sending the message responsive to a request or access operation naturally takes place when the mobile device is on and available to pick up the message).

Regarding claim 24, Little discloses an apparatus to route data for transmission over a wireless carrier network, comprising:

a first arrangement to relay data stored in at least one database and processed by a server arrangement directly to a wireless carrier network for transmission to at least one wireless device, the first arrangement configured to be arranged behind a firewall arrangement that provides security for the data (pages 7-8, par. 65-68), the server arrangement and the first arrangement wherein the first arrangement is configured to push the data from behind the firewall arrangement to the at least one wireless device such that the data is not stored outside the firewall arrangement while enroute to the wireless carrier network (i.e., note that data is never stored outside the firewall 808)(page 10, par. 84-88 – wherein the push

technique effectively extends the company firewall 808 to include the mobile device requesting to access its messages stored on the message server 820 inside the firewall 808).

Regarding claim 26, Little discloses a system for transmitting data stored in at least one database to at least one wireless device, comprising:

a relay arrangement to route the data directly to a wireless carrier network for transmission over the wireless carrier network, the relay arrangement configured to communicate with the at least one wireless device via a firewall arrangement that provides security for the data and the relay arrangement (pages 7-8, par. 65-68), wherein the relay arrangement is configured to push the data from behind the firewall arrangement to the at least one wireless such that the data is not stored outside the firewall arrangement while enroute to the wireless carrier network (i.e., note that data is never stored outside the firewall 808)(page 10, par. 84-88 – wherein the push technique effectively extends the company firewall 808 to include the mobile device requesting to access its messages stored on the message server 820 inside the firewall 808).

Regarding claim 71, Little discloses An apparatus for transmitting data, comprising:

an arrangement for relaying data to a wireless carrier network such that the data is not transmitted beyond an arrangement to secure the data until at least one wireless device that receives data from over the wireless carrier network can receive

Art Unit: 2131

the data (pages 7-8, par. 65-68 – wherein sending the message responsive to a request or access operation naturally takes place when the mobile device is on and available to pick up the message).

Regarding claims 2, 11, and 33, Little discloses wherein the data includes at least one of e-mail data and PIM data (page 7, par. 65).

Regarding claims 3, 9, and 13, Little discloses wherein the at least one wireless device receives encryption data wirelessly (pages 8, par. 72).

Regarding claim 4, Little discloses wherein the database includes at least one of an e-mail server (i.e., message server 820) and a database server (i.e., one or more data stores 817)(page 7, par. 66).

Regarding claims 12-13, Little discloses the method of claim 10, further comprising:

sending encryption data (i.e., through message repackaging technique) to the wireless device via a wireless connection, thus updating operational capabilities of the wireless device (i.e., bulk information updates)(page 3, par. 30-31).

Regarding claims 22 and 30, Little discloses wherein the relay arrangement includes at least two parts, at least one of which shares a common hardware platform with the server arrangement (page 7, par. 67).

Regarding claims 23, and 28-29, Little discloses wherein the relay arrangement is configured to route the data over the wireless carrier network (page 7, par. 67).

Regarding claims 25, 27, and 31, Little discloses wherein the first arrangement is configured to transmit the data to a particular one of the at least one wireless device only when the particular wireless device is available to receive the data (page 7-8, par. 67).

Regarding claim 32, Little discloses wherein the relay arrangement is configured to store the data if the at least one wireless device is not available to receive the data (page 7, par. 67).

Regarding claim 33, Little discloses the system of claim 1 wherein the data includes e-mail data (page 2, par. 24).

Regarding claims 34-35, Little discloses the system of claim 34, wherein the transport layer services include end-to-end acknowledgement of the transmission of the data to the at least one handheld wireless device (page 10, par. 88).

Regarding claim 36, Little discloses the system of claim 1, wherein the relay arrangement is configured to be under exclusive control of a single enterprise (page 7, par. 61 and 63).

Regarding claim 37, Little discloses the system of claim 1, wherein the relay arrangement is configured to be a non-shared resource with respect to other enterprises (page 7, par. 61 and 63).

Regarding claim 39, Little discloses wherein the relay arrangement (i.e., wireless connector system 828) is configured to communicate with the wireless carrier network (page 7-8, par. 67).

Regarding claim 40, Little discloses wherein the relay arrangement is configured to convert the data according to a data packet protocol associated with the wireless carrier network (i.e., frame relay or T1 connection using TCP/IP protocol)(page 2, par. 27 and page 8, par. 74-75).

Regarding claims 41 and 60, Little discloses wherein the relay arrangement is configured to provide the data to plurality of device types over a plurality of wireless carrier network types (page 2, par. 27-28).

Regarding claim 42, Little discloses the system of claim 41, wherein at least two of the plurality of wireless carrier network types operate according to different transmission protocols (page 2, par. 27).

Regarding claims 38, 43-48, and 56, Little discloses wherein the data is routing directly to the wireless carrier network via the Internet (i.e., frame relay or T1 connection using TCP/IP protocol)(page 2, par. 22-25).

Regarding claims 49-54, Little discloses wherein the wireless carrier network is a public carrier network (page 7, par. 67).

Regarding claims 57-59, Little discloses wherein the data is routed directly to the wireless network via a dedicated connection (i.e., frame relay or T1 connection using TCP/IP protocol)(page 2, par. 22-25).

Regarding claim 61, Little discloses the system of claim 55, wherein the relay arrangement encodes the data, and pushes the data from behind the firewall arrangement to the at least one wireless device such that the data is not stored outside of the firewall arrangement while enroute to the wireless network.

Regarding claim 62, Little discloses the system of claim 55, wherein the relay arrangement is configured to push the data such that intermediate processing of the data does not occur enroute to the wireless network (i.e., note that data is never

stored outside the firewall 808)(page 10, par. 84-88 – wherein the push technique effectively extends the company firewall 808 to include the mobile device requesting to access its messages stored on the message server 820 inside the firewall 808).

Regarding claim 63, Little discloses the system of claim 55, wherein the relay arrangement is configured to push the data such that the data is not transmitted until a connection is established between the relay arrangement and the at least one wireless device, and the at least one wireless device can receive the data (pages 7-8, par. 65-68 – wherein based on the disclosed push technique, sending the message responsive to a request or access operation occurs only when the mobile device is on and available to pick up the message).

Regarding claim 64, Little discloses the system of claim 63, wherein the data is not transmitted until the at least one wireless device is "on", is within a service coverage area, and is logged onto the at least one wireless network (pages 7-8, par. 65-68 – wherein based on the disclosed push technique, sending the message responsive to a request or access operation occurs only when the mobile device is on and available to pick up the message).

Regarding claim 65, Little discloses the system of claim 63, wherein the connection is a synchronous connection (i.e., ISDN)(page 2, par. 27).

Art Unit: 2131

Regarding claim 66, Little discloses the system of claim 63, wherein the connection is a secure connection (page 4, par. 39-41).

Regarding claim 67, Little discloses the system of claim 63, wherein the connection is established using a data packet protocol (page 2, par. 27).

Regarding claim 68, Little discloses the system of claim 63, wherein the connection is established using an Internet protocol (page 2, par. 27).

Regarding claim 69, Little discloses the system of claim 55, wherein the data includes enterprise data (i.e., calendars, to-do lists, (enterprise) task list, email, and documentation)(page 2, par. 24).

Regarding claim 70, Little discloses the system of claim 55, wherein the relay arrangement is co-located on the same physical device (page 7, par. 64).

Regarding claims 72-75, Little discloses the method of claim 10, further comprising:

encoding the data prior to routing the data to the at least one wireless carrier network (page 9, par. 80-82).

Regarding claims 76-80, Little discloses wherein the at least one wireless device includes a handheld wireless device (page 2, par. 22 and page 3, par. 32).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5-8 and 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Little et al., (U.S. Publication No. 2004/0205248 and Little hereinafter), in view of Bommareddy et al., (U.S. Patent No. 6,779,039 and Bommareddy hereinafter).

Teachings of Little with respect to limitation of claims 1, 10, and 14 have been discussed previously.

Regarding claims 5 and 6, Little does not expressly disclose a redundant server arrangement for the server arrangement.

However, Bommareddy discloses a redundant server arrangement for the server arrangement (col. 2, lines 1-10).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the certificate management method and system of Little by including a redundant server arrangement for the server arrangement as disclosed by Bommareddy. This modification would have been

Art Unit: 2131

obvious because one of ordinary skill in the art would have been motivated by the suggestion of Bommareddy to improve both reliability and scalability of operations in comparison to single server operation (Bommareddy, col. 2, lines 1-10).

Regarding claims 7 and 8, Little does not expressly disclose a redundant relay arrangement for the relay arrangement.

However, Bommareddy discloses a redundant relay arrangement for the relay arrangement (i.e., clustering units wherein such redundancy may be implemented in the same or different geographic location as a design choice)(col. 5, lines 33-67 and col. 6, lines 1-30 and col. 7, lines 26-39).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the certificate management method and system of Little by including a redundant relay arrangement for the relay arrangement as disclosed by Bommareddy. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Bommareddy to avoid difficulties that arise with a single point of failure (Bommareddy, col. 2, lines 57-65).

Regarding claims 19-21, Little does not expressly disclose further comprising: monitoring the relay arrangement including the routing of the data from the relay arrangement.

Art Unit: 2131

However, Bommareddy discloses further comprising: monitoring the relay arrangement including the routing of the data from the relay arrangement (col. 6, lines 30-67 and col. 7, lines 1-32).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of applicant's invention to modify the certificate management method and system of Little by including monitoring the relay arrangement including the routing of the data from the relay arrangement as disclosed by Bommareddy. This modification would have been obvious because one of ordinary skill in the art would have been motivated by the suggestion of Bommareddy to improve both reliability and scalability of operations in comparison to single server operation (Bommareddy, col. 2, lines 1-10).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from

Art Unit: 2131

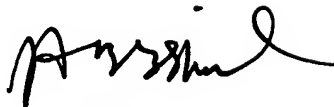
the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arezoo Sherkat whose telephone number is (571) 272-3796. The examiner can normally be reached on 8:00-4:30 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A.S.
Patent Examiner
Group 2131
Feb. 16, 2006


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100